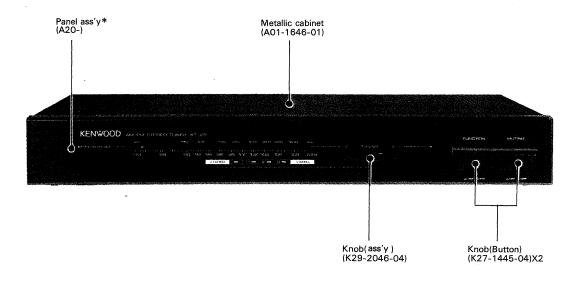
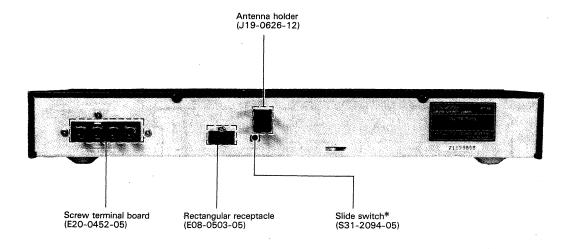
AM-FM STEREO TUNER

KT-28 SERVICE MANUAL

KENWOOD

©1988-3 PRINTED IN JAPAN B51-3437-00(J)334



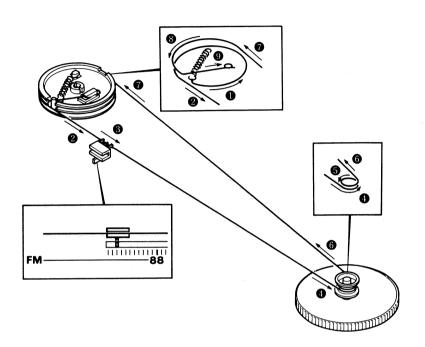


Note: When doing service of KT-28 be sure to have the customer bring the KAX-38 or use the DC power supply.

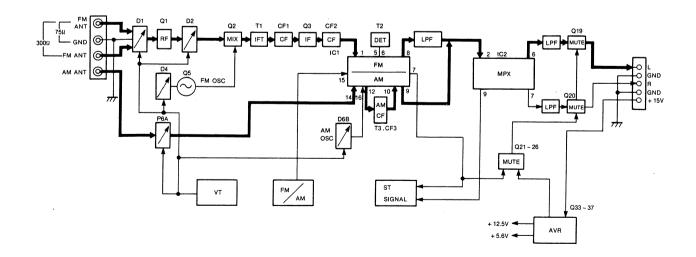


DIAL CORD STRINGING

- ◆ Completely turn the Dial drum attached to the variable condenser to the left (Counter Clockwise) and apply cord in numerical order as shown in the Figure.
- After applying the cord, completely turn the tuning knob to the right (clockwise) and attach the dial pointer to the position of lowest frequency.



BLOCK DIAGRAM





CIRCUIT DESCRIPTION

Function of components Tuner unit (X05-2890-20)

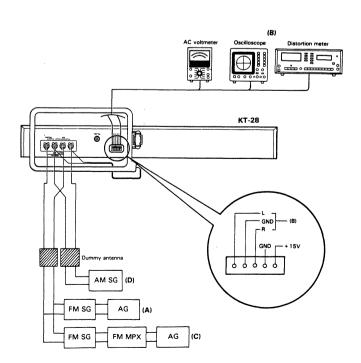
Components	Use/Function	Operation/Condition/Interchangeability
IC1(LA1260)	FM/AM system IC	FM IF amplifying, detection and control. AM mixing, IF amplifying and detection.
IC2 (AN7470)	MPX	MPX demodulation
Q1	FM RF amplifier	
Q2	FM mixer	
Q3	FM IF amplifier	
Q5	FM oscillator	
Q8	Switch	On in the FM mode, to change the IC to the FM mode.
Q19, 20	Muting	ON when muting.
Q21	Power mute drive	ON when the Q33 is OFF. It becomes the drive source for muting.
Q22	Mute logic synthesis	Synthesises the power mute and selecter mute signals.
Q23, 24	Mute drive	Drives the Q19, 20.
Q25	Tuning detection	Detects the tuned signals of the IC1, and turns the Q23 OFF when tuning.
Q26	Selecter mute detection	Detects change-over of the selecter switch. It becomes the drive source for muting immediately.
Q33	Power mute detection	OFF in the transition of ON/OFF and drives the Q21. (ON in normal operation and OFF the Q21)
Q34~36	Stabilizing power circuit	
Q37	5.6V stabilizing power circuit	
D1, 2	RF tuning varactor diode	
D4	OSC varactor diode	
D5A	AM RF tuning varactor diode	
D5B	AM OSC varactor diode	
D7	Switch (VCO killer)	ON in the AM mode and cuts VCO's activation of the PLL MPX.
D12	Reference voltage zener diode for tuning	
D14	Reference voltage zener diode	6.2V
D24	Varister for AFC	
D25		For shock muting when the FM mode is ON.
D26		For shock muting when the AM mode is ON.
D28	Clamper	Prevents breakdown of the circuit caused by high voltage static electricity.

KT-28

ADJUSTMENT

T		INPUT	OUTPUT	TUNER	ALIGNMENT			
No.	ITEM	SETTINGS	SETTINGS	SETTINGS	POINTS	ALIGN FOR	FIG.	
FΜ	FM SECTION Unless otherwise specified, the individual switches should be set as following:							
		SELECTOR: FM						
		(A)				Maximum ampltude and		
i	BAND EDGE	88.0MHz	(B)	88.0MHz	L7	symmetry of the oscilloscope		
	(1)	1kHz,±75kHz dev				display.		
1		(A)				Maximum amplitude and		
2	BAND EDGE	108.0MHz	(B)	108.0MHz	TC1	symmetry of the oscilloscope		
	(2)	1kHz,±75kHz dev				display.		
			Repeat alignments 1 an	d 2 several ti	mes.			
		(A)				Maximum amplitude and		
3	RF ALIGNMENT	98.0MHz	(B)	MONO	L2, 4	symmetry of the oscilloscope		
		1kHz,±75kHz dev		98.0MHz		display.		
		(A)						
		98.0MHz		MONO		·	l	
4	DISCRIMINATOR	1kHz,±75kHz dev	-	98.0MHz	T2	Minimum distortion.		
		60dBµ(ANT input)						
			Connect a 330kΩ resis-					
		(A)	tor to TP11. Connect a					
5	VCO	98.0MHz	frequency counter to	98.0MHz	VR1	19.00kHz	(a)	
		0 dev	the resistor via					
		60dBμ(ANT input)	an AC voltmeter.					
A M	SECTION	Keep	the AM loop antenna ins	talled. SELE	ECTOR: AM			
						Maximum amplitude and		
(1)	BAND EDGE	-	(B)	528kHz	L9	symmetry of the oscilloscope		
	(1)					display.		
		: 1				Maximum amplitude and		
(2)	BAND EDGE	-	(B)	1611kHz	TC3	symmetry of the oscilloscope		
	(2)					display.		
			Repeat alignments (1)	and (2) severa	ıl times.			
		(C)				Maximum amplitude and		
(3)	RF ALIGNMENT	600kHz	(B)	600kHz	L11	symmetry of the oscilloscope		
	(1)	400Hz,30% mod				display.		
		(C)				Maximum amplitude and	1	
(4)	RF ALIGNMENT	1400kHz	(B)	1400kHz	TC2	symmetry of the oscilloscope		
	(2)	400Hz,30% mod				display.		
			Repeat alignments (3)	and (4) severa	ıl times.			

SYSTEM CONNECTION





REGLAGE

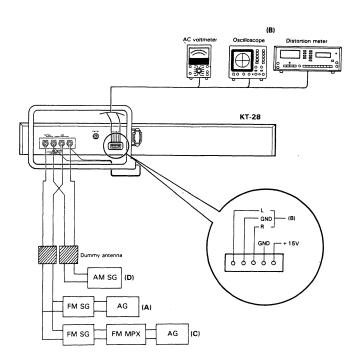
		REGLAGE DE	REGLAGE DE	REGLAGE DU	POINT DE		T	
N°	ITEM	L'ENTREE	LA SORTIE	TUNER	L'ALIGNEMENT	ALIGNER POUR	FIG.	
SEC	SECTION MF Sauf en cas d'indications spéciales, régler chaque commutateur comme suit:							
		SELECTEUR: FM						
		(A)				Amplitude et symétrie	T	
1	BORD DE BANDE	88,0MHz	(B)	88,0MHz	L7	maximale de l'affichage	1	
	(1)	1kHz.±75kHz dév				de l'oscilloscope.	1	
		(A) .				Amplitude et symétrie		
2	BORD DE BANDE	108,0MHz	(B)	108,0MHz	TC1	maximale de l'affichage	İ	
	(2)	1kHz.±75kHz dév	, and the second			de l'occilloscope.		
			Répéter les points 1 e	t 2 plusieurs	fois.			
		(A)				Amplitude et symétrie	I	
3	ALIGNEMENT HT	98,0MHz	(B)	MONO	L2. 4	maximale de l'affichage	ľ	
		1kHz.±75kHz dév		98,0MHz		de l'oscilloscope.		
		(A)						
		98,0MHz	* .	MONO				
4	DISCRIMINATEUR	NATEUR 1kHz.±75kHz dév	_	98,0MHz	T2	Distortion minimale.		
		60dBµ(Entrée ANT)						
			Relier une résistance					
		(A)	de 330kΩ à TP11.					
		98,0MHz	Raccorder un compteur				1	
-5	vco	0 dév	de fréquence à une	98,0MHz	VR2	19.00kHz	(a)	
		60dBµ(Entrée ANT)	résistance par					
		·	l'intermédiaire d'un					
			voltmètre CA.				1	
SE	CTION MA	Lais	ser l'antenne bouche MA	installée.	SELECTEUR: AM			
						Amplitude et symétrie		
(1)	BORD DE BANDE	-	(B)	528kHz	L9	maximale de l'affichage	1	
Ì	(1)					de l'oscilloscope.	1	
						Amplitude et symétrie		
(2)	BORD DE BANDE	-	(B)	1611kHz	TC3	maximale de l'affichage		
	(2)					de l'oscilloscope.		
	L		Répéter les points (1)	et (2) plusie	eurs fois.			
		(C)				Amplitude et symétrie	T	
(3)	ALIGNEMENT HT	600kHz	(B)	600kHz	L11	maximale de l'affichage		
	(1)	400Hz.30% mod				de l'oscilloscope.	1	
		(C)				Amplitude et symétrie		
(4)	ALIGNEMENT HT			1400kHz	TC2	maximale de l'affichage		
' '	(2)	400Hz.30% mod]	de l'oscilloscope.		
<u> </u>	<u> </u>	L	Répêter les points (3)	et (4) plusie	eurs fois.			

KT-28

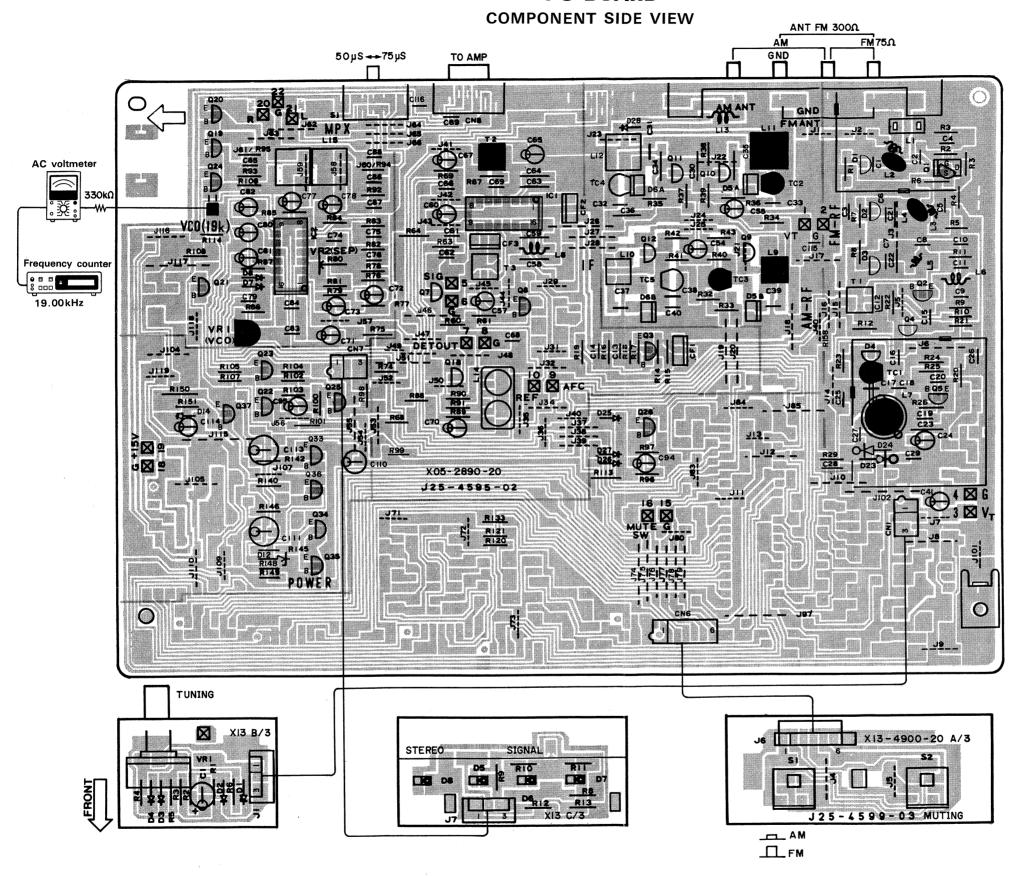
ABGLEICH

		EINGANGS-	AUSGANGS-	TUNER-	ABGLEICH-		T
NR.	GEGENSTAND	EINSTELLUNG	EINSTELLUNG	EINSTELLUNG	PUNKTE	ABGLEICHEN FÜR	ABB
UK	W-EMPFAN	GSABTEILUN	G Außer wenn anders a	angegeben, die	verschiedenen	Schalter wie folgt einstelle	en:
	SE	CLECTOR: FM		,			
1	BANDKANTE (1)	(A) 88,0MHz 1kHz.±75kHz Hub	(B)	88,0MHz	L7	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
2	BANDKANTE (2)	(A) 108,0MHz 1kHz.±75kHz Hub	(B)	108,0MHz	TC1	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
			Abstimmungen 1 und 2 m	mehrere Male wi	ederholen.		
3	EMPFANGS- BEREICH- ABSTIMMUNGEN	(A) 98,0MHz 1kHz.±75kHz Hub	(B)	MONO 98,0MHz	L2, 4	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
4	DISKRIMINATOR	(A) 98,0MHz 1kHz.±75kHz Hub 60dBµ(ANT Eingang)	-	MONO 98,0MHz	T2	Minimal Klirrfaktor.	
5	SPANNUNGS- GEREGELTER OSZILLATOR	(A) 98.0MHz 0 Hub 60dBµ(ANT Eingang)	Einen 330kΩ Wider- standen zu TP11 anschließen. Einen Frequenzzähler über einen Wechselspannungs- messer an den Wider- stand anschließen.	98,0MHz	VR1	19,00kHz	(a)
ΜW	-EMPFANG	SABTEILUNG	Die MW-Rahmenant	tenne angebrach	t lassen. SEI	LECTOR: AM	
(1)	BANDKANTE (1)	-	(B)	528kHz	L9	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(2)	BANDKANTE (2)	_	(B)	1611kHz	тсз	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
		,	Abstimmungen (1) und ((2) mehrere Mal	e wiederholen		
(3)	HF-ABGLEICH (1)	(C) 600kHz 400Hz.30% mod	(B)	600kHz	L11	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(C) 1400kHz 400Hz.30% mod	(B)	1400kHz	TC2	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
	<u> </u>	<u> </u>	Abstimmungen (3) und ((1) mahrara Wal	a wiederholen		

SYSTEM CONNECTION

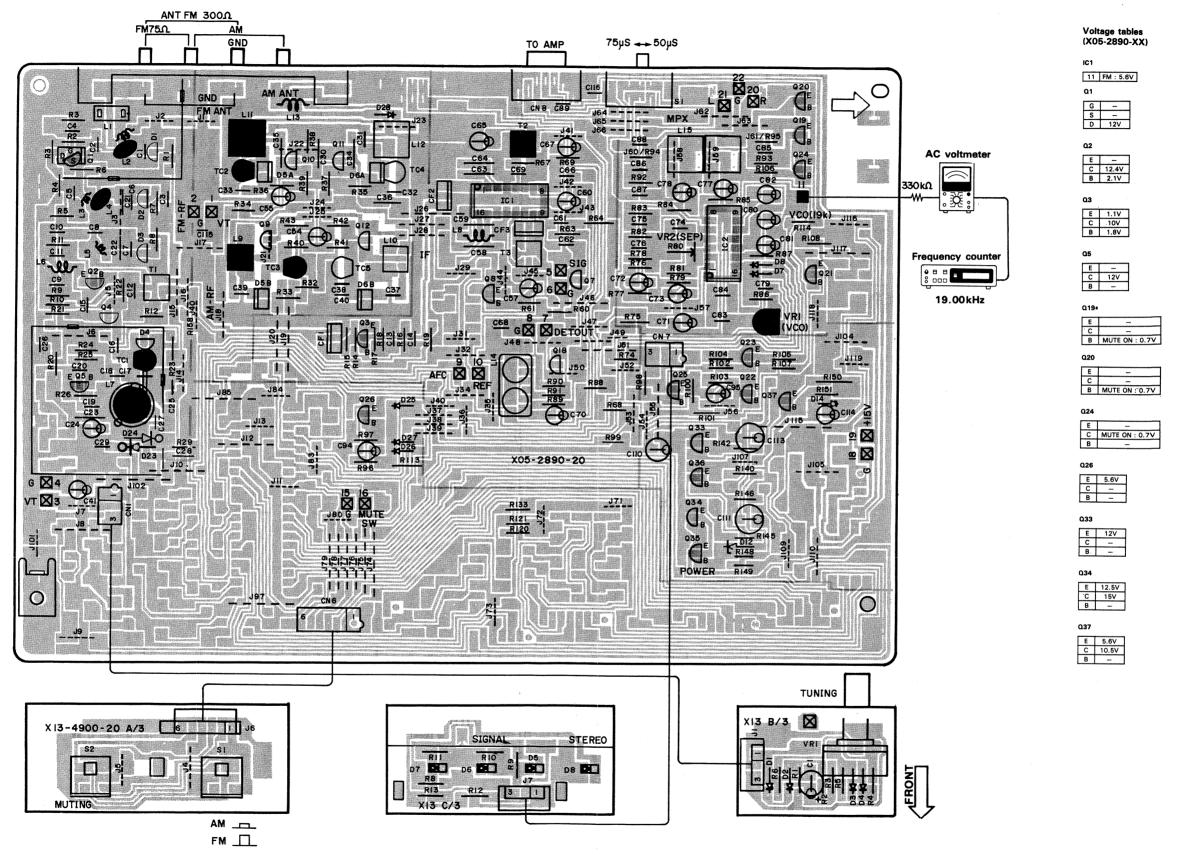


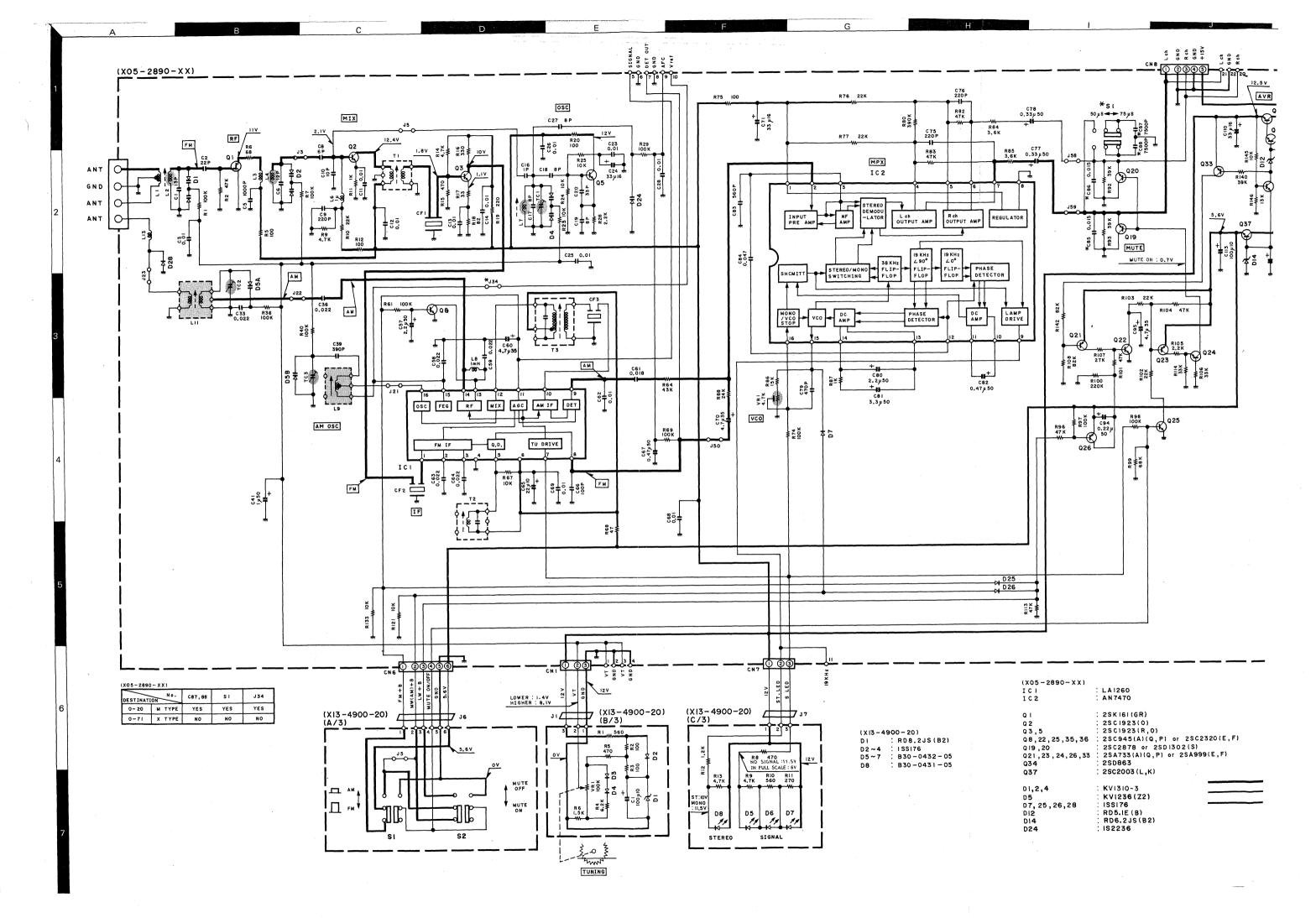
PC BOARD

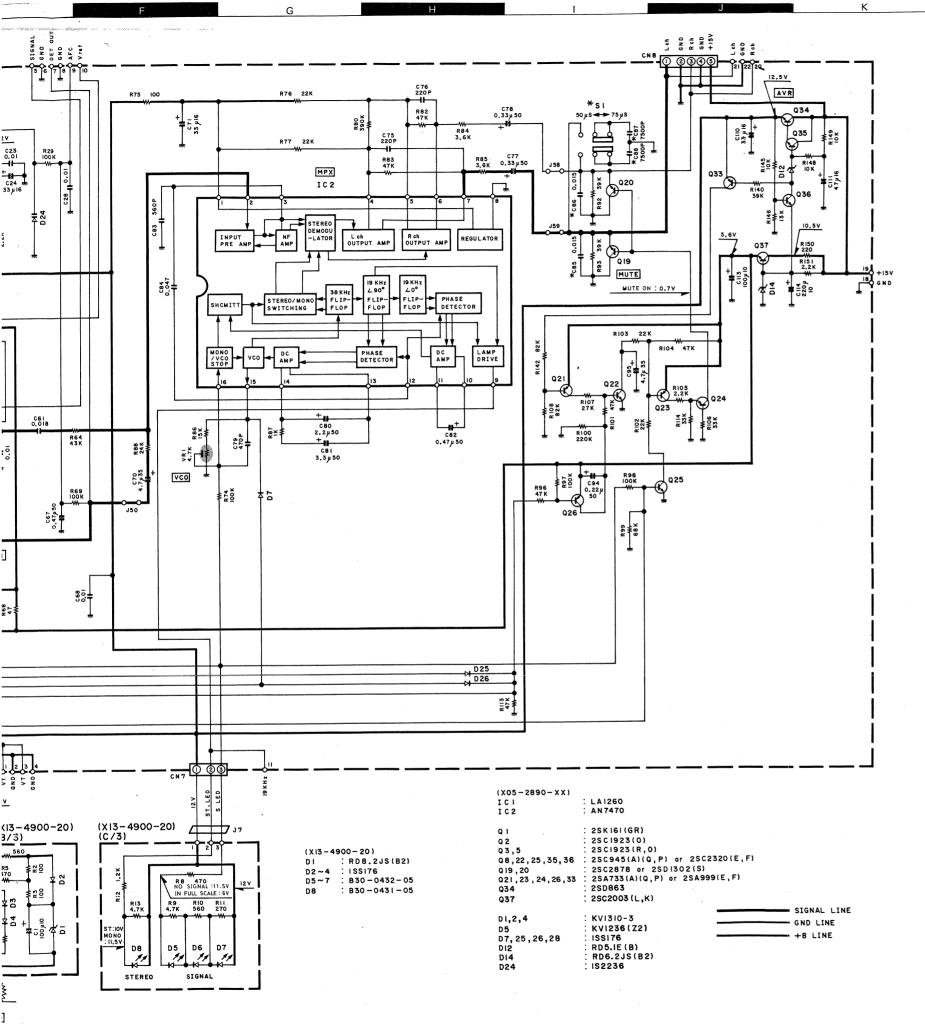


PC BOARD

FOIL SIDE VIEW







AN7470

W.



2SK161



2SA733 (A) 2SA999 2SC1923 2SC2003 2SC2320 2SC2878 2SC945 (A) 2SD1302 2SD863

LA1260

DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). △ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description		Re- marks		
参照番号	位置	新	部品番号	部 品 名 / 規 格		備考		
	KT-28							
1 2 2	1B 2A 2A	* *	A01-1646-01 A20-5526-02 A20-5527-02	METALLIC CABINET PANEL ASSY PANEL ASSY	M X			
6 	1B	* *	B21-0065-04 B46-0096-13 B50-8779-00 B50-8887-00	DIAL P®INTER WARRANTY CARD INSTRUCTIØN MANUAL(ENG,FRE) INSTRUCTIØN MANUAL(SPA,ARA)	X			
10	2Å	*	D15-0230-03	PULLEY				
14	1A	*	E30-2373-05	CORD WITH CONNECTOR				
18 19	1A 1A		G01-0368-04 G10-0086-04	EXTENSION SPRING NON-WOVEN FABRIC				
-		*	H01-7784-04 H10-3305-02 H12-1136-04 H25-0223-04 H25-0232-04	ITEM CARTON CASE POLYSTYRENE FOAMED FIXTURE CARTON BOARD PROTECTION BAG (750X350X0.03) PROTECTION BAG (235X350X0.03)				
23 24	2B 3B		J19-0506-05 J19-0626-12	UNIT HOLDER ANTENNA HOLDER				
28 29	3A 2B		K27-1445-04 K29-2046-04	KNØB (BUTTØN) KNØB ASSY				
38 39	1A 1A		T90-0104-25 T90-0132-05	LOOP ANTENNA T TYPE ANTENNA				
	+			IT (X05-2890-20)				
C1 C2 C3 C5 C6			CC45FSL1H150J CC45FSL1H220J CK45FF1H103Z CK45FB1H102K CC45FSL1H120J	CERAMIC 15PF J CERAMIC 22PF J CERAMIC D. D10UF Z CERAMIC 1000PF K CERAMIC 12PF J				
C8 C9 C10 C11 -14 C16			CC45FSL1H060D CC45FSL1H221J CC45FSL1H100D CK45FF1H103Z CC45FSL1H010C	CERAMIC 6. OPF D CERAMIC 22OPF J CERAMIC 1OPF D CERAMIC 0. 01OUF Z CERAMIC 1. OPF C				
017 018 ,19 020 023 024		*	CC45FCH1H080D CC45FSL1H080D CC45FSL1H330J C91-0769-05 CE04FW1C330M	CERAMIC 8. OPF D CERAMIC 8. OPF D CERAMIC 33PF J CERAMIC 0. 01UF M ELECTRN 33UF 16WV				
C25 ,26 C27 C28 C33 C36		*	CK45FF1H103Z CC45FPH1H080D C91-0769-05 CK45FF1H223Z C91-0085-05	CERAMIC O. 010UF Z CERAMIC 8. 0PF D CERAMIC 0. 01UF M CERAMIC 0. 022UF Z CERAMIC 0. 022UF N				
C39 C41 C57 C58 ,59 C60			CC93FCH1H391J CEO4FW1H01OM CEO4FW1H2R2M C91-OO85-O5 CEO4FW1V4R7M	CERAMIC 390PF J ELECTR® 1.0UF 50WV ELECTR® 2.2UF 50WV CERAMIC 0.022UF N ELECTR® 4.7UF 35WV				
C61			CF92FV1H183J	MF 0.018UF J				

E: Scandinavia & Europe K: USA

P: Canada W:Europe

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

* New Parts

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品書号	Description 部 品 名 / 規 格	Desti- Renation mar 仕 向備
C62 C63 ,64 C65 C66 C67			CK45FF1H103Z C91-0085-05 CE04FW1A22OM CC45FSL1H101J CE04FW1HR47M	CERAMIC 0.010UF Z CERAMIC 0.022UF N ELECTR® 22UF 10WV CERAMIC 100PF J ELECTR® 0.47UF 50WV	
C68 ,69 C70 C71 C75 ,76 C77 ,78			CK45FF1H103Z CE04FW1V4R7M CE04FW1C330M CC45FSL1H221J CE04FW1HR33M	CERAMIC 0.010UF Z ELECTR® 4.7UF 35WV ELECTR® 33UF 16WV CERAMIC 220PF J ELECTR® 0.33UF 50WV	
C79 C80 C81 C82 C83			CC93FCH1H471J CE04FW1H2R2M CE04FW1H3R3M CE04FW1HR47M CK45FB1H561K	CERAMIC 470PF J ELECTR® 2.2UF 50WV ELECTR® 3.3UF 50WV ELECTR® 0.47UF 50WV CERAMIC 560PF K	
C84 C85 ,86 C87 ,88 C94 C95	-		CF92FV1H473J CF92FV1H153J CF92FV1H752J CE04FW1HR22M CE04FW1V4R7M	MF 0.047UF J MF 0.015UF J MF 7500PF J ELECTR® 0.22UF 50WV ELECTR® 4.7UF 35WV	M
C110 C111 C113 C114 TC1	:		CE04FW1C330M CE04FW1C470M CE04FW1A101M CE04FW1A221M C05-0302-05	ELECTRØ 33UF 16WV ELECTRØ 47UF 16WV ELECTRØ 100UF 10WV ELECTRØ 22OUF 10WV CERAMIC TRIMMER CAPACITØR(11PF	
TC2 ,3			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF	
43 E1 E2	2B 2B 2B		E23-0125-05 E08-0503-05 E20-0452-05	TERMINAL RECTANGULAR RECEPTACLE(T0 AMP) SCREW TERMINAL B0ARD(4P)FM,AM	
CF1 ,2 CF3 L1 L2 L3		*	L72-0136-05 L72-0099-05 L31-0518-05 L31-0530-05 L31-0527-05	CERAMIC FILTER CERAMIC FILTER FM-RF COIL FM-RF COIL FM-RF COIL	
L4 L6 L7 L8 L9		*	L31-0521-05 L40-1092-14 L32-0316-05 L40-1021-14 L32-0277-15	FM-RF COIL SMALL FIXED INDUCTOR(1.OUH,M) FM OSCILLATING COIL SMALL FIXED INDUCTOR(1.OMH,K) MW OSCILLATING COIL	
L11 L13 T1 T2 T3		*	L31-0509-05 L40-1092-14 L30-0429-05 L30-0428-05 L30-0362-05	MW-RF COIL SMALL FIXED INDUCTOR(1.OUH,M) AM IFT FM IFT AM IFT	
R5 R12 R20 R75 R150			RD14GB2E101J RD14GB2E101J RD14GB2E101J RD14GB2E101J RS14KB3A221J	FL-PR00F RD 100 J 1/4W FL-PR00F RD 100 J 1/4W FL-PR00F RD 100 J 1/4W FL-PR00F RD 100 J 1/4W FL-PR00F RS 220 J 1W	X X X
VR1			R12-1069-05	TRIMMING POT. (4.7K) VCO	
S1	2B		S31-2094-05	SLIDE SWITCH (DE-EMPH)	m
D1 +2			KV1310-3	VARIABLE CAPACITANCE DIODE	

E: Scandinavia & Europe K: USA P: Canada W:Europe

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

16

⚠ indicates safety critical components.

* New Parts

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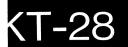
Ref. No.	Address Ne		Description		Re- marks
参照番号	位置		部品名/規格	仕 向	備考
D4 D5 D7 D12 D14		KV1310-3 KV1236(Z2) 1SS176 RD5.1E(B) RD6.2JS(B2)	VARIABLE CAPACITANCE DIQDE VARIABLE CAPACITANCE DIQDE DIQDE ZENER DIQDE ZENER DIQDE		
D24 D25 ,26 D28 IC1 ·IC2		152236 155176 155176 155176 LA1260 AN7470	VARIABLE CAPACITANCE DIQDE DIQDE DIQDE IC(FM/AM TUNER) IC(FM MPX)		
Q1 Q2 Q3 Q5 Q8		2SK161(GR) 2SC1923(0) 2SC1923(R,0) 2SC1923(R,0) 2SC2320(E,F)	FET TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
08 019 ,20 019 ,20 021 021		2SC945(A)(Q,P) 2SC2878 2SD1302(S) 2SA733(A)(Q,P) 2SA999(E,F)	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
022 022 023 ,24 025 025		2SC232O(E,F) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SC232O(E,F) 2SC945(A)(Q,P)	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
026 026 033 033 034		2SA733(A)(Q,P) 2SA999(E,F) 2SA733(A)(Q,P) 2SA999(E,F) 2SD863	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
035 ,36 037 023,24 035,36		2SC945(A)(Q,P) 2SC2003(L,K) 2SA999(E,F) 2SC2320(E,F)	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
			UNIT (X13-4900-20)		
DS -7 D8	2A 2A	B30-0432-05 B30-0431-05	LED(LN31GCPH(U) SIGNAL 1-3 LED(LN21CPH) STERE®		
C1 .		CEO4FW1A101M	ELECTRO 100UF 10WV		
VR 1	2A	* R01-5055-05	POTENTIOMETER(100K E)		
S1 •2	2A,2B	540-2323-05	PUSH SWITCH		
D1 D2 -4		* RDB.2JS(B2) 1SS176	ZENER DIØDE DIØDE		

E: Scandinavia & Europe K: USA

P: Canada W:Europe

U: PX(Far East, Hawaii) T: England

M: Other Areas



SPECIFICATIONS

KT-28

[FM tuner section]	
Usable sensitivity	10.8 dRf (0.95 ,\delta\)
50dB quieting sensitivity	10.0 αδί (0.00 μν)
Mono	1.6 E 406/2 .3/\
Stereo	
	37.2 dbi (40 μV)
Signal to noise ratio	70 4D 6E 4Df
Mono	
	70 dB at 85 dBf
Stereo	•
	64 dB at 85 dBf
Total harmonic distortion	
Mono: 100 Hz	
1 kHz	
50 Hz ~ 10 kHz	
Stereo: 100 Hz	
1 kHz	
50 Hz ~ 10 kHz	
Capture ratio	2.0 dB
Alternate channel selectivity	50 dB
Stereo separation	
1 kHz	45 dB
50 Hz ~ 10 kHz	35 dB
Frequency response	30 Hz to 15 kHz
	+0.5 dB, -2.5 dB
Spurious rejection ratio	75 dB
Image rejection ratio	40 dB
IF rejection ratio	90 dB
AM suppression ratio	55 dB
Antenna impedance	75 Ω unbalanced & 300 Ω balanced
Subcarrier suppression ratio	35 dB
FM frequency range	87.5 MHz to 108 MHz
[AM tuner section]	20 1//400 1//1
Usable sensitivity	
Signal to noise ratio	
Total harmonic distortion	
Image rejection	
Selectivity	25 dB
[General]	
Dimensions	W: 420 mm (16-9/16")
	H: 63 mm (2-1/2")
	D: 227 mm (8-15/16")
Weight (Net)	1.5 kg (3.3 lb)
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Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the General Market (M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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